

FIG.2
APPLICATION FORMAT

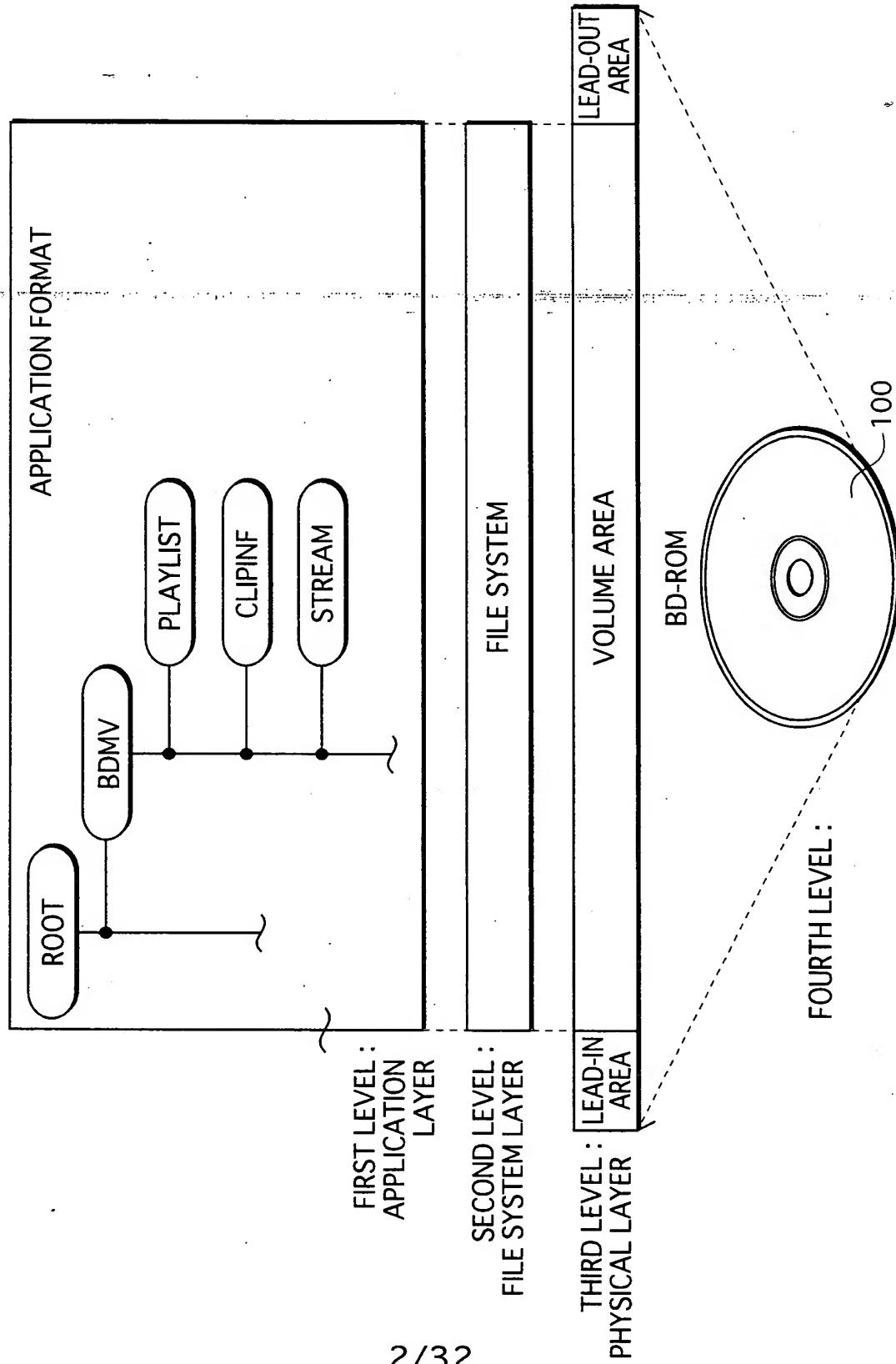
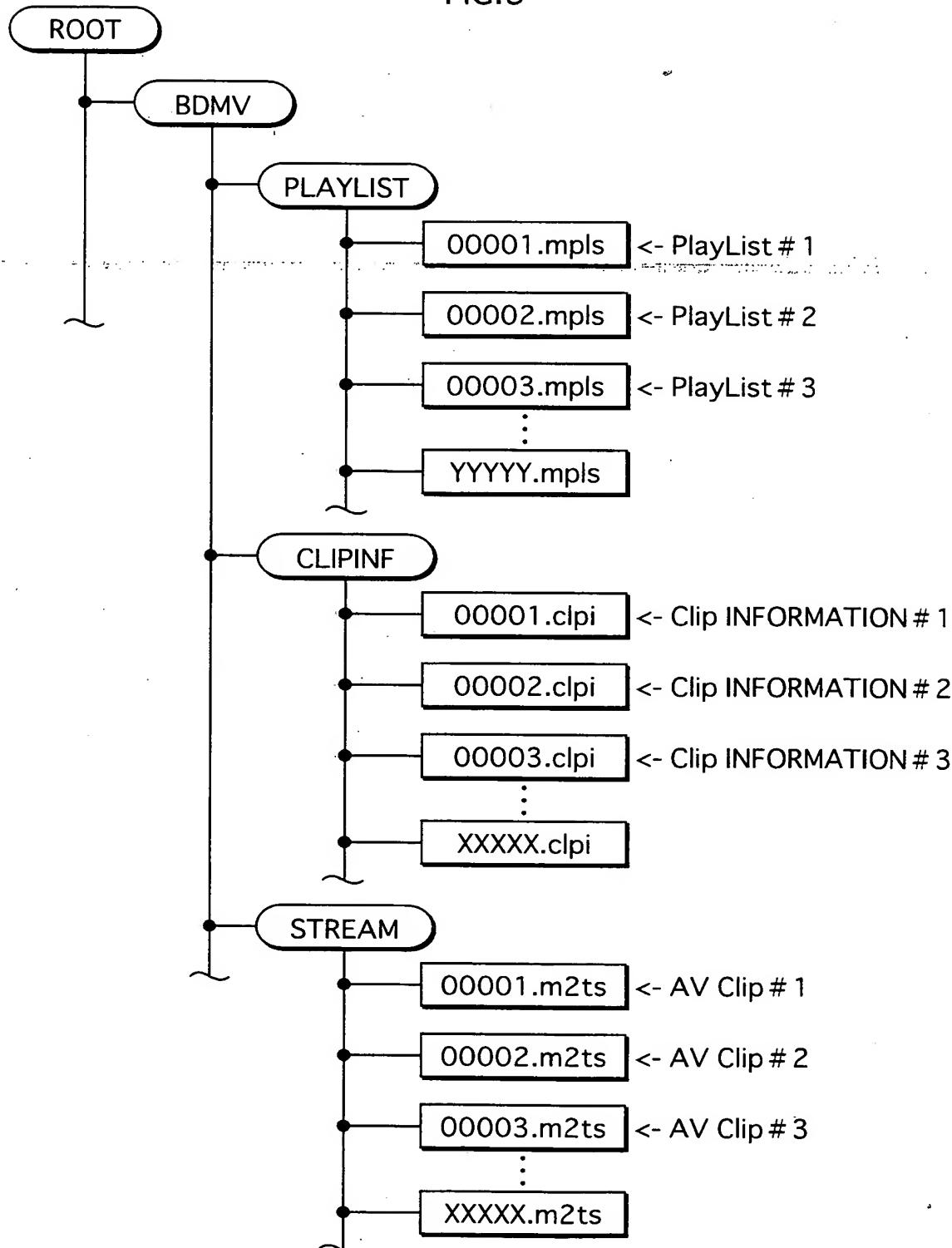


FIG.3



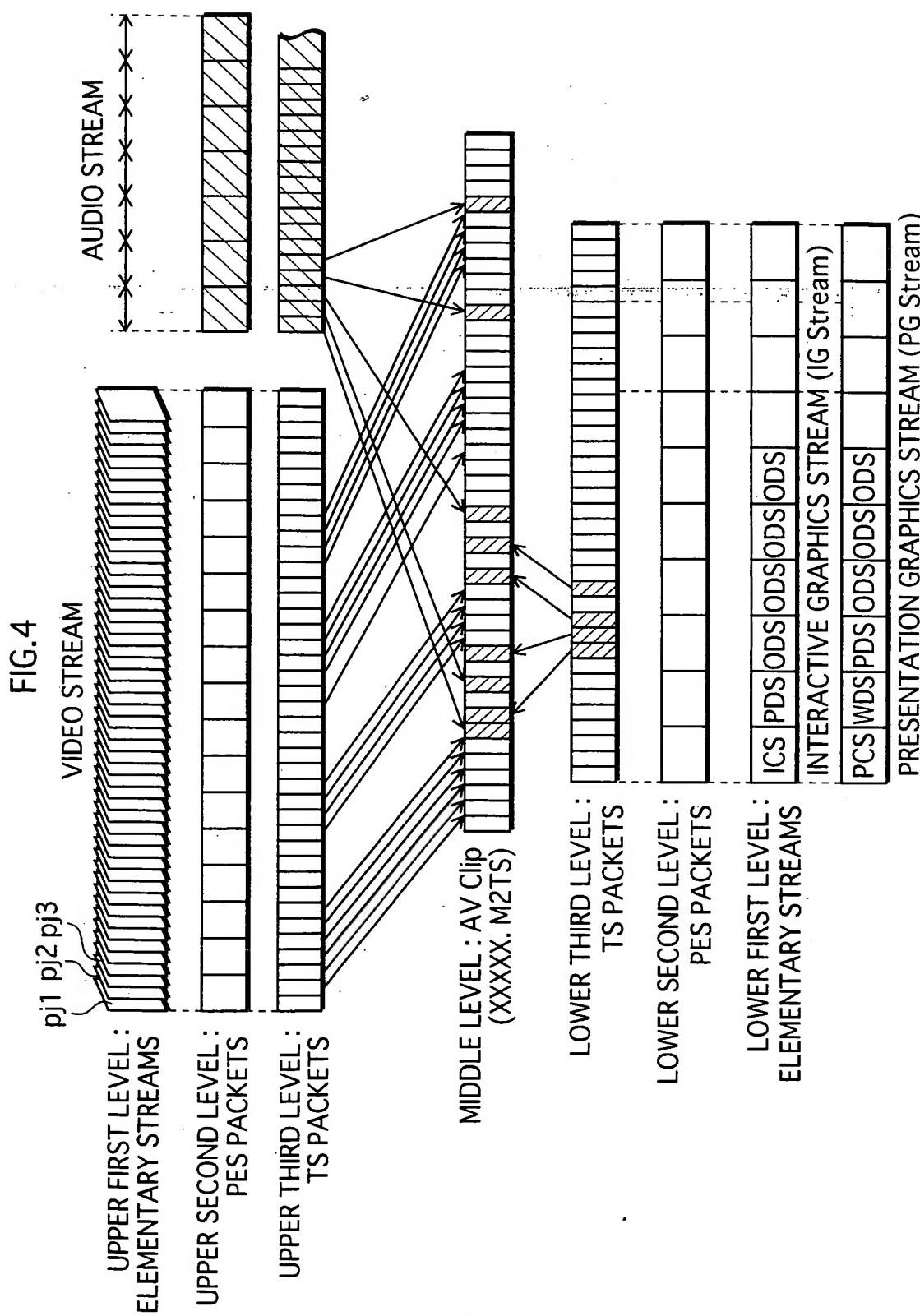


FIG.5

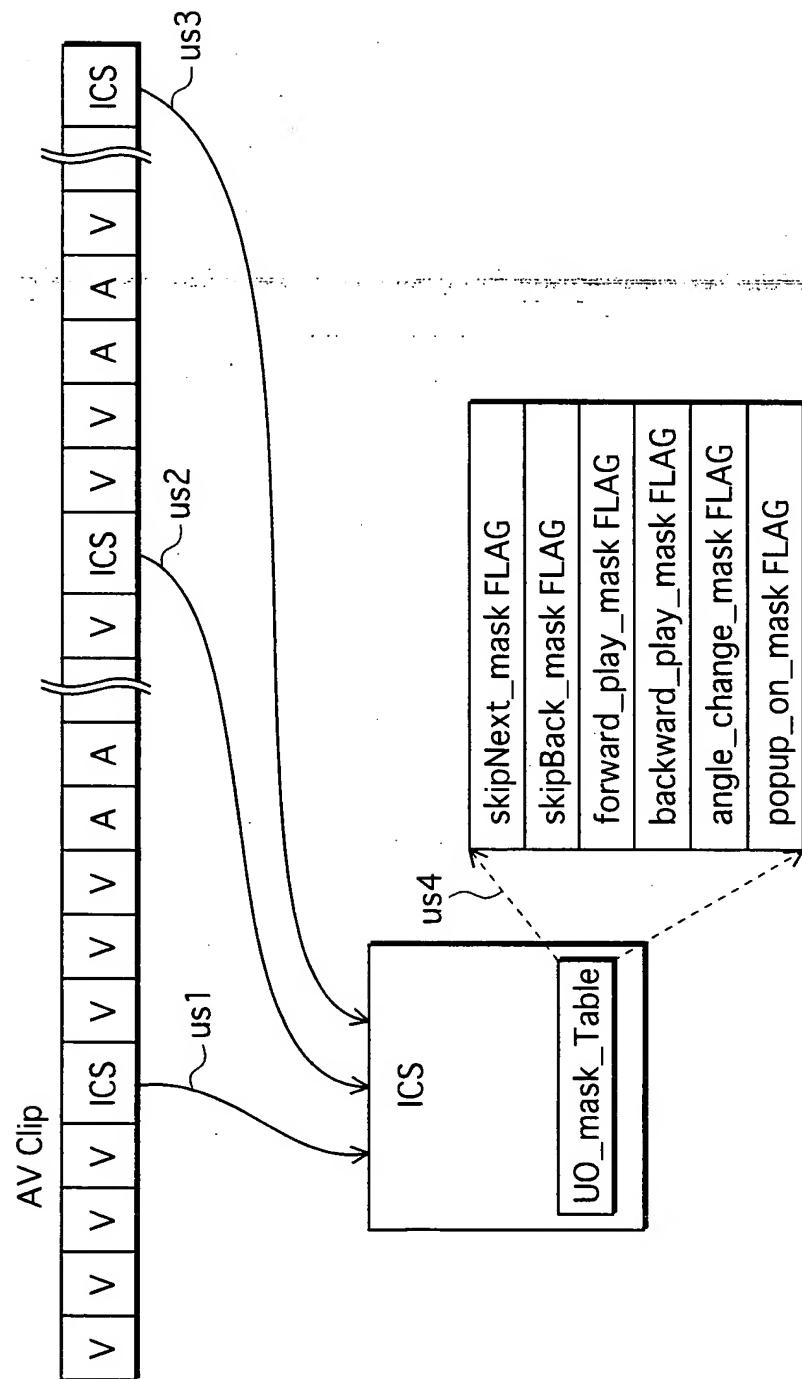


FIG.6

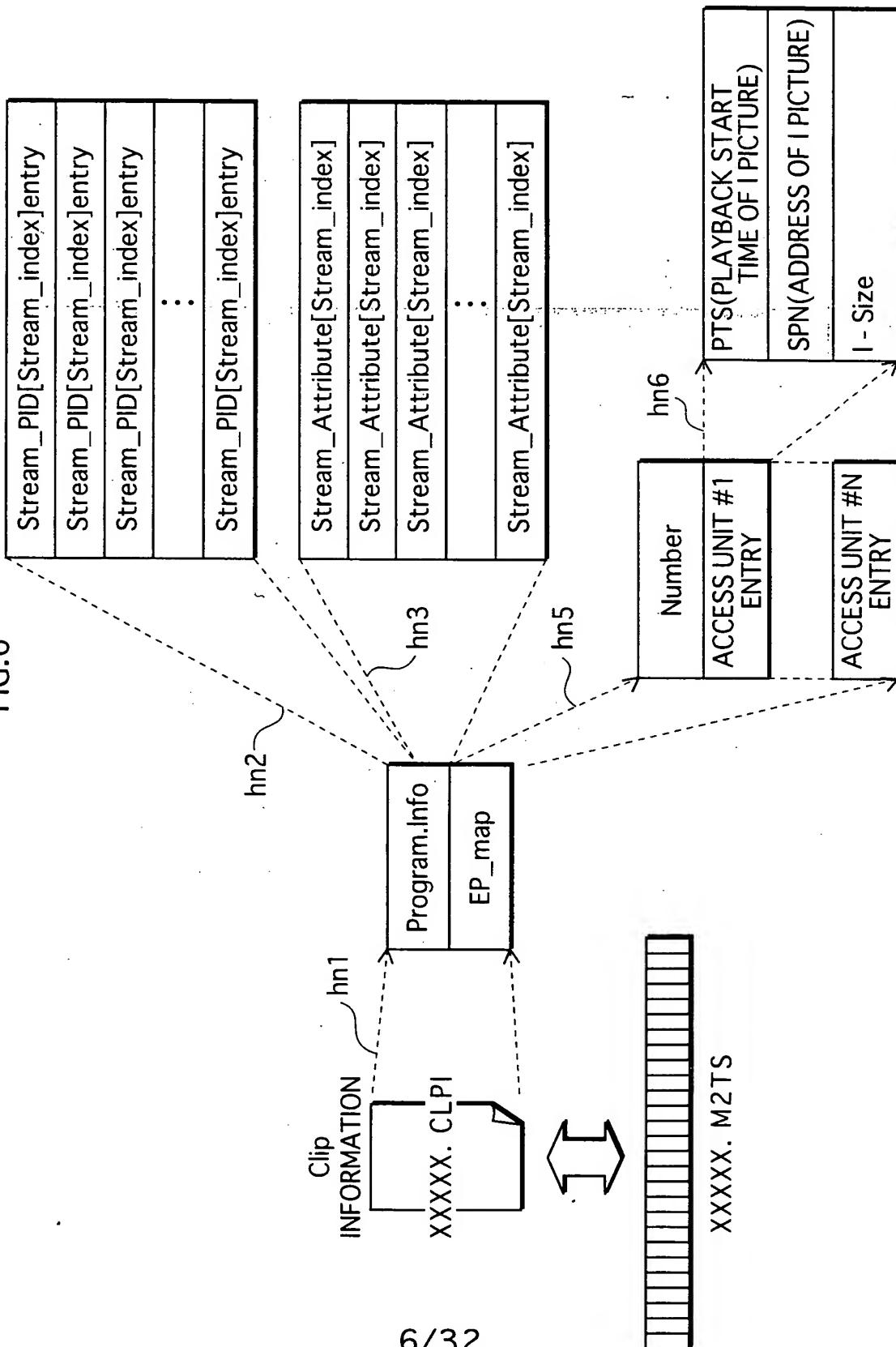


FIG.7

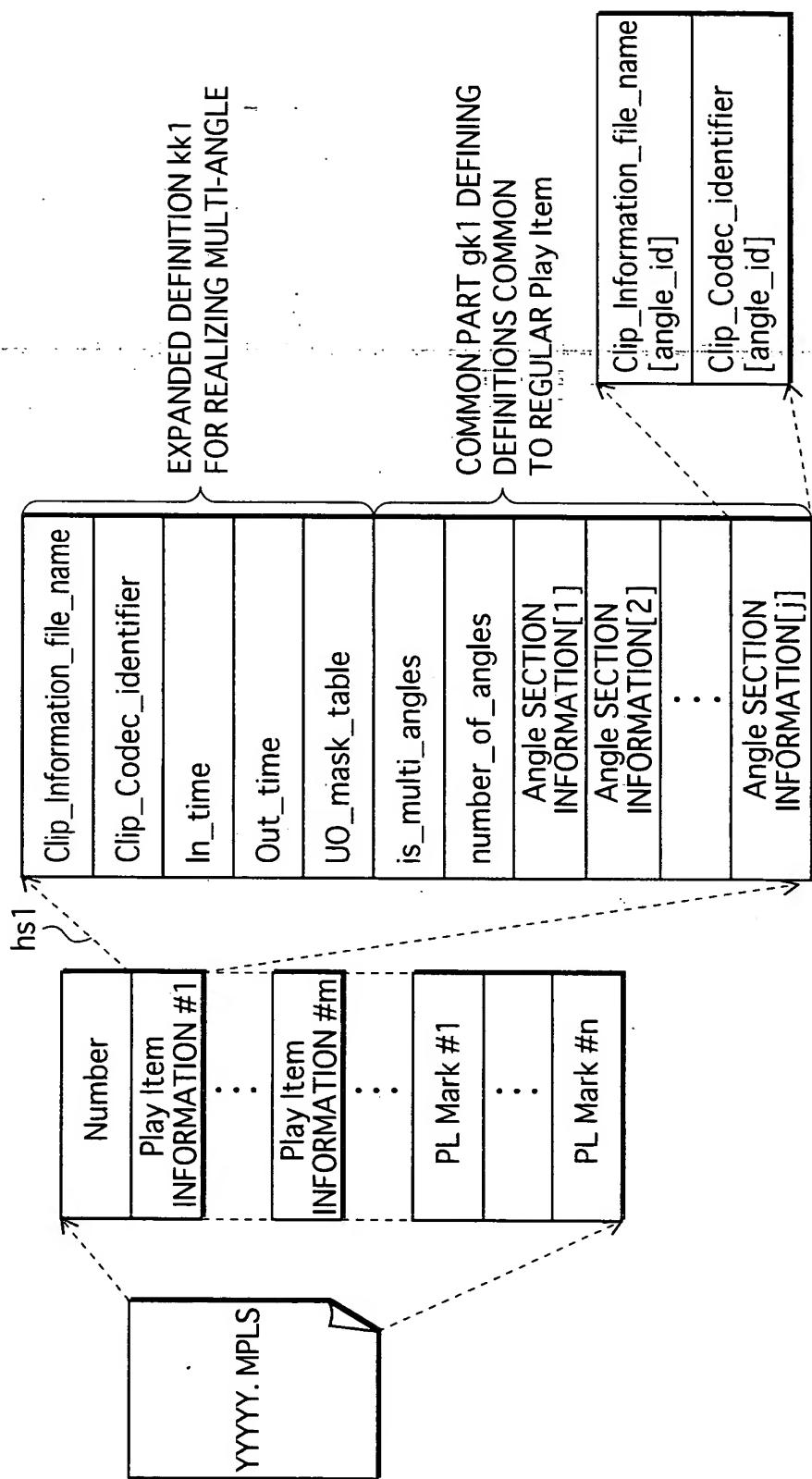


FIG.8

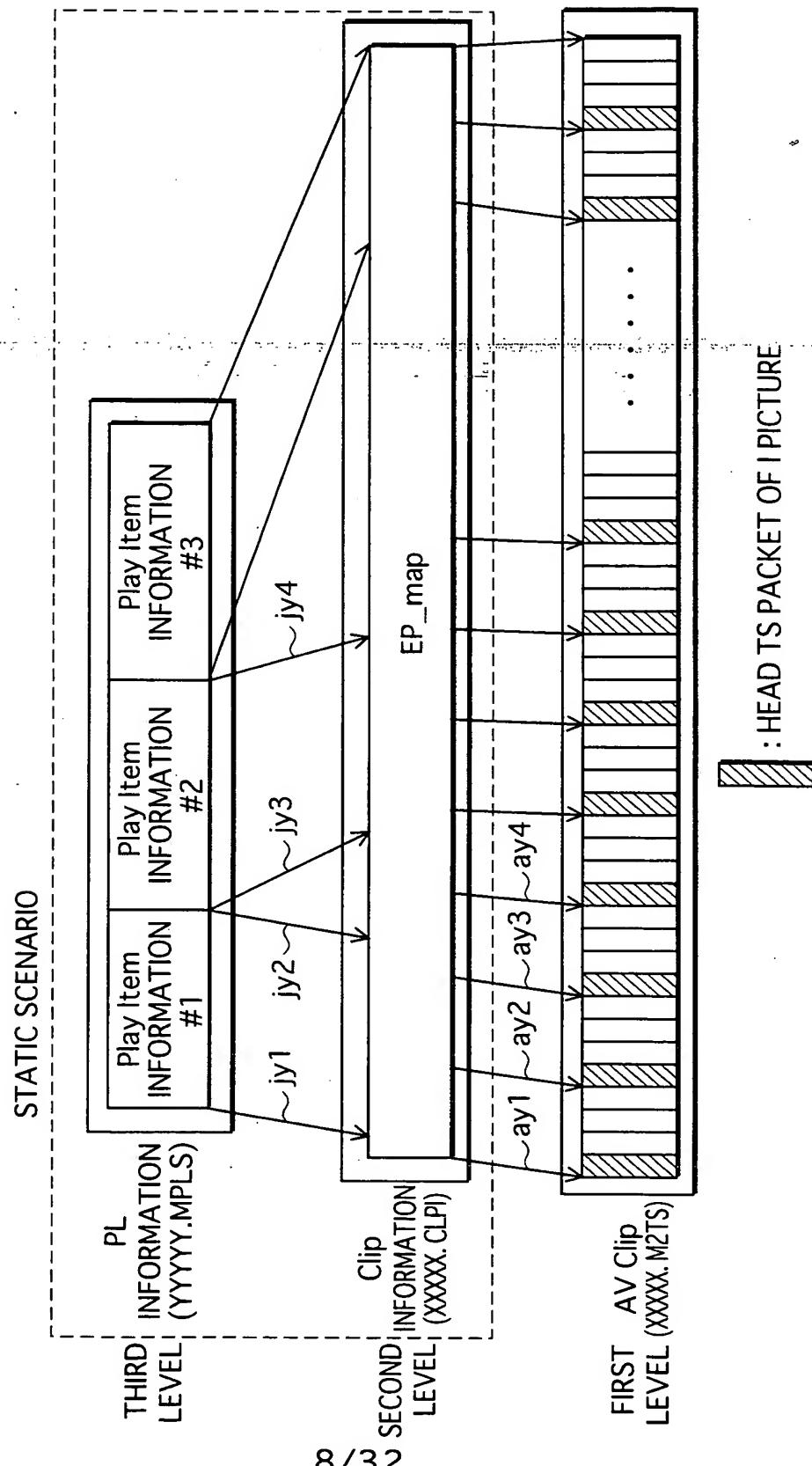


FIG.9

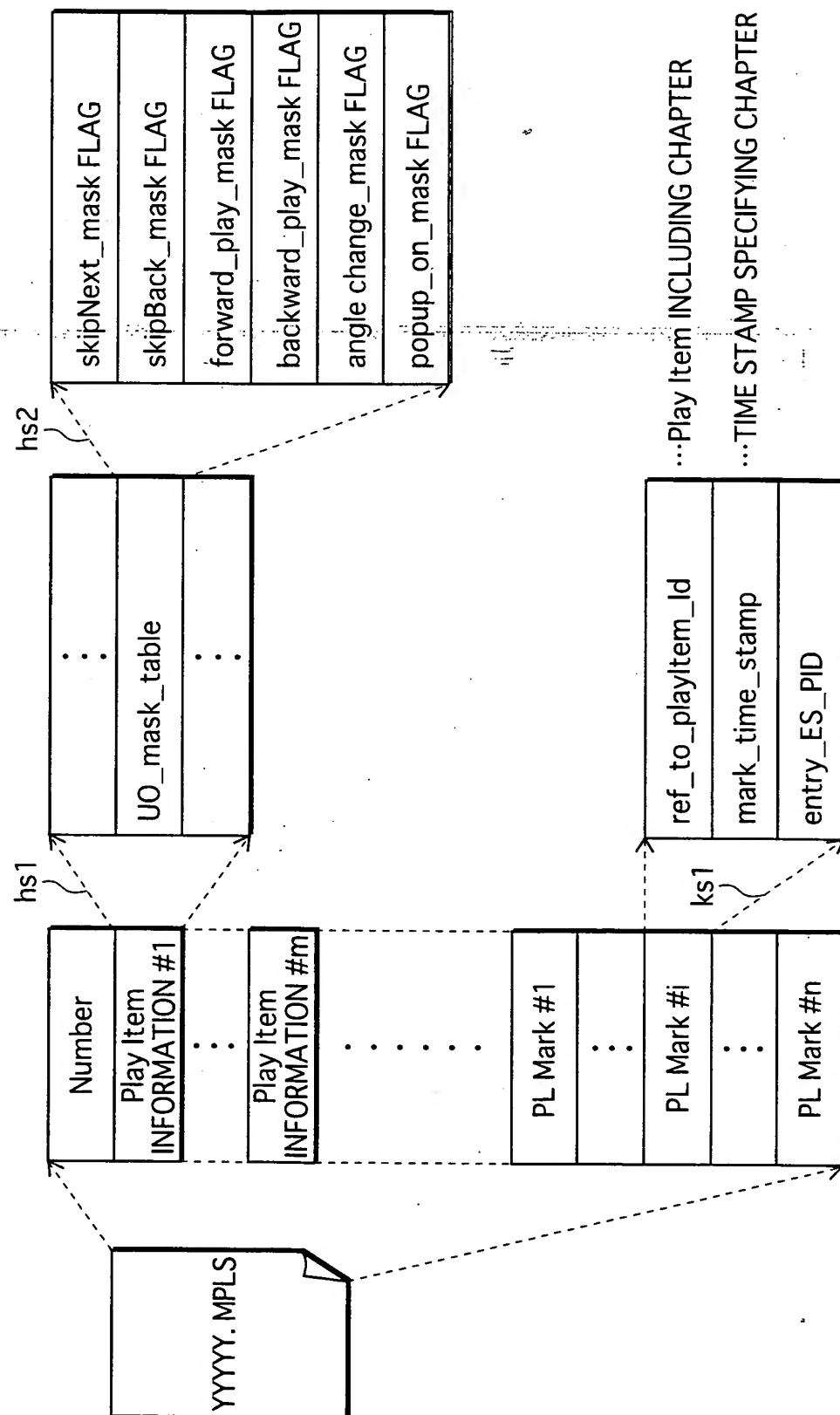


FIG.10

RECEIVING EVENT INFORMATION FROM REMOTE CONTROL

TRANSMITTING DISPLAY INFORMATION TO REMOTE CONTROL

The diagram illustrates a video processing system architecture. At the bottom, a disc player (1) feeds into a Read Buffer (2), which then connects to a Demux (3). The Demux (3) splits the Stream_PID into two paths: one leading to an I-Graph. Decoder (9) and another leading to a P-Graph. Decoder (6). The I-Graph. Decoder (9) outputs to an Interactive Graphics Plane (10). The P-Graph. Decoder (6) outputs to a Presentation Graphics Plane (11). Both planes feed into a Video plane (12), which outputs a 1920X1080X16-bit YUV signal. This signal is processed by a Video Stream Decoder (4) and then a De-mux (2). The De-mux (2) also receives an ICS (Index Change Signal) from a PLAYBACK CONTROL UNIT (15). The De-mux (2) outputs to an Audio Stream Decoder (13). The PLAYBACK CONTROL UNIT (15) receives NEW Play Item and NEW ICS signals from the De-mux (2) and sends them to a DISPLAY INFO GENERATING UNIT (16). The DISPLAY INFO GENERATING UNIT (16) also receives a DISPLAY INFORMATION CORRESPONDING TO CURRENT PLAYBACK POINT signal from the De-mux (2). The DISPLAY INFO GENERATING UNIT (16) outputs to a DEFINITION INFO HOLDING UNIT (17), which then feeds into a CLUT UNIT (18). The CLUT UNIT (18) outputs to a CLUT UNIT (19), which finally connects to a RADIO INTERFACE UNIT (20). The RADIO INTERFACE UNIT (20) is connected to a PSR SET (19), which in turn connects to SCENARIO MEMORY (14). SCENARIO MEMORY (14) contains CURRENT PL INFORMATION and CURRENT CLIP INFORMATION. The PSR SET (19) also receives a DISPLAY INFORMATION CORRESPONDING TO CURRENT PLAYBACK POINT signal from the De-mux (2). The De-mux (2) also outputs to an Audio Stream Decoder (13), which provides the final AUDIO OUT signal. The system also has a VIDEO OUT signal.

FIG.11A

TEMPLATE FOR BUTTON
INFORMATION

BUTTONxxx : yyy
NAME="aaa"
IMAGE="bbb"
POSITION="ccc"
EVENT="ddd"

FIG.11B

TEMPLATE FOR TEXT
INFORMATION

TEXTeee : fff
NAME="ggg"
POSITION="hhh"

FIG.12A

BUTTON INFORMATION 1

BUTTON 1: ENABLED
NAME=" MENU"
IMAGE=" STAR"
POSITION=" UPPER LEFT"
EVENT=" DISPLAY MENU"

FIG.12B

TEXT INFORMATION

TEXT 1: NORMAL
NAME=" ANGLE SELECTION"
POSITION=" UPPER CENTER"

FIG.12C

BUTTON INFORMATION 2

BUTTON 2: ENABLED
NAME=" 1"
IMAGE=" OVAL"
POSITION=" MIDDLE LEFT"
EVENT=" ANGLE 1"

FIG.12D

BUTTON INFORMATION 3

BUTTON 3: ENABLED
NAME=" 2"
IMAGE=" OVAL"
POSITION=" MIDDLE RIGHT"
EVENT=" ANGLE 2"

FIG.12E

BUTTON INFORMATION 4

BUTTON 4: ENABLED
NAME=" PREVIOUS"
IMAGE=" LEFT ARROW"
POSITION=" MIDDLE LOWER LEFT"
EVENT=" SKIP BACK"

FIG.12F

BUTTON INFORMATION 5

BUTTON 5: ENABLED
NAME=" NEXT"
IMAGE=" RIGHT ARROW"
POSITION=" MIDDLE LOWER RIGHT"
EVENT=" SKIP NEXT"

FIG.12G

BUTTON INFORMATION 6

BUTTON 6: ENABLED
NAME=" FAST-REWIND"
IMAGE=" PENTAGONAL
FIGURE POINTING LEFT"
POSITION=" LOWER LEFT"
EVENT=" FAST-REWIND"

FIG.12H

BUTTON INFORMATION 7

BUTTON 7: ENABLED
NAME=" FAST-FORWARD"
IMAGE=" PENTAGONAL
FIGURE POINTING RIGHT"
POSITION=" LOWER RIGHT"
EVENT=" FAST-FORWARD"

FIG. 13

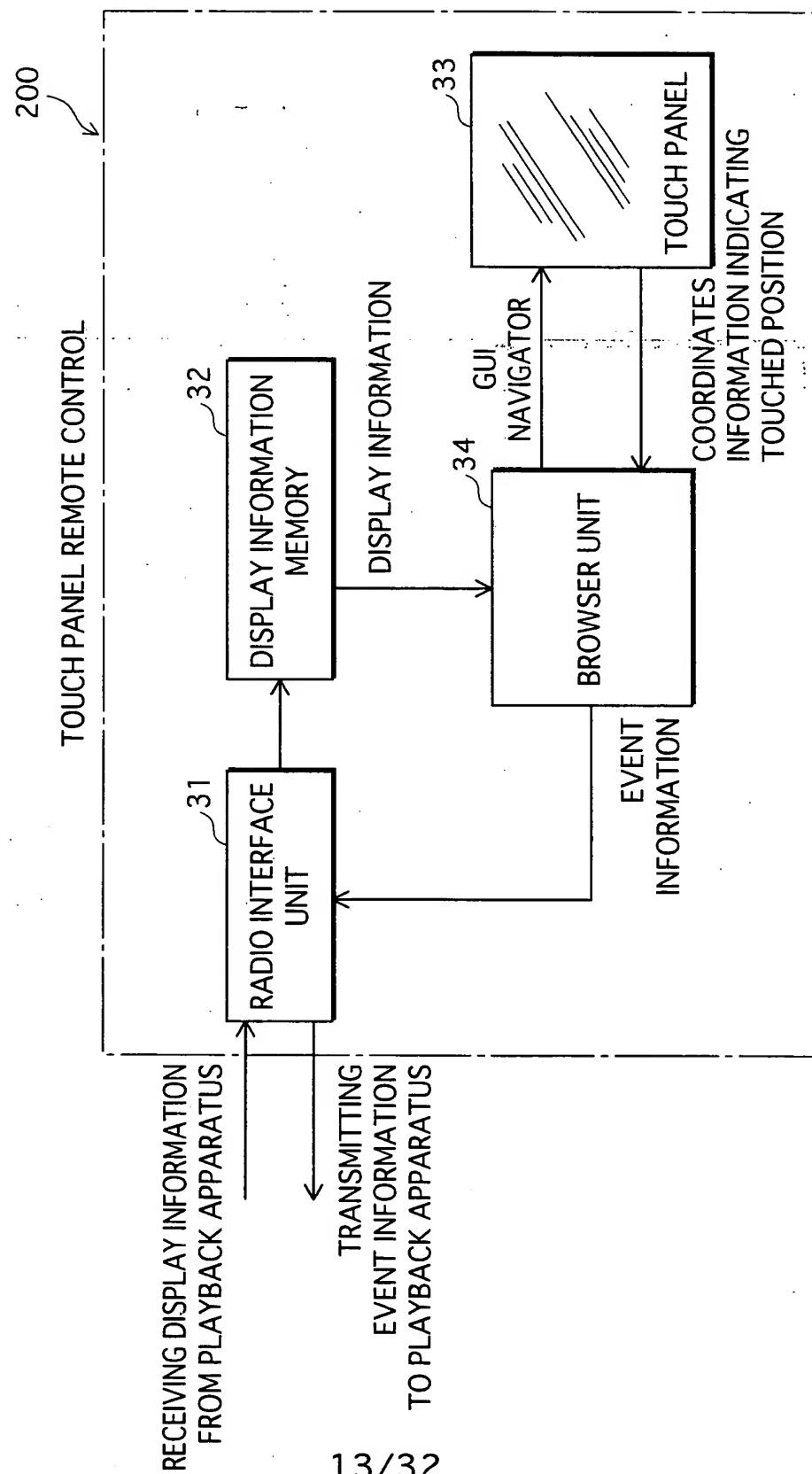


FIG. 14

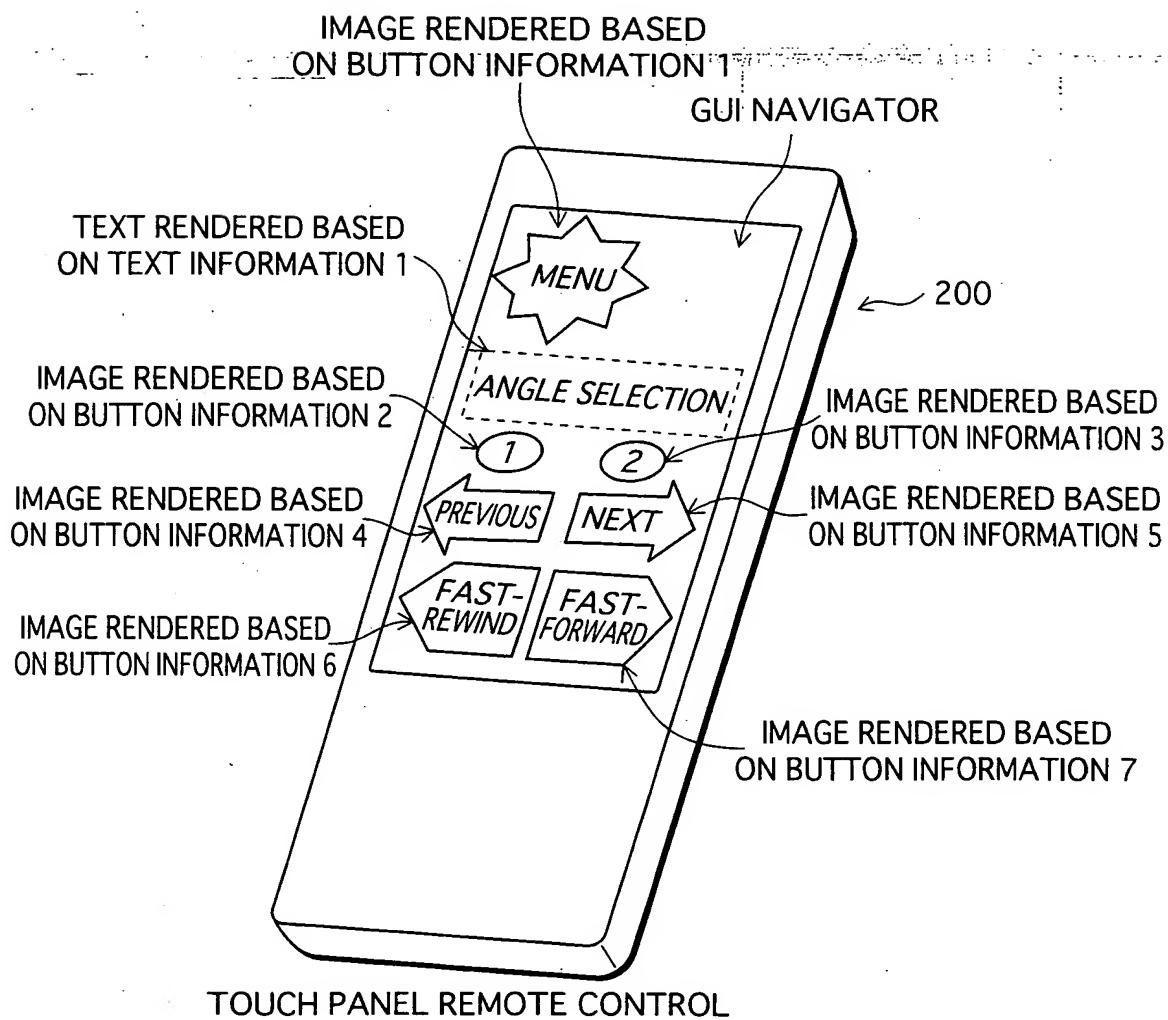


FIG. 15

Play List #1

Play Item #1	Play Item #2	Play Item #3
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MENU CALL ○	MENU CALL ○	MENU CALL ○
ANGLE CHANGE X	ANGLE CHANGE ○	ANGLE CHANGE X
SKIP NEXT ○	SKIP NEXT ○	SKIP NEXT X
FAST-FORWARD ○	FAST-FORWARD ○	FAST-FORWARD X
SKIP BACK X	SKIP BACK ○	SKIP BACK ○
FAST-REWIND X	FAST-REWIND ○	FAST-REWIND ○

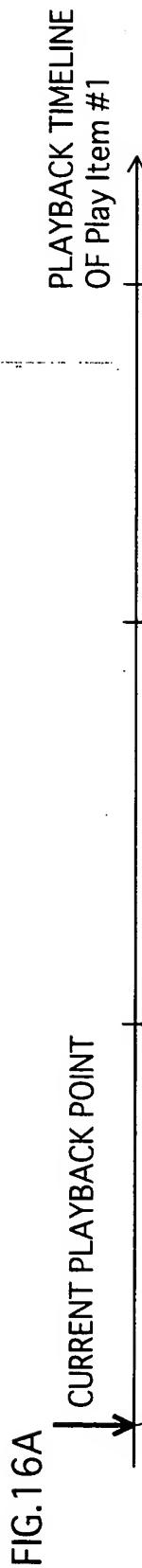
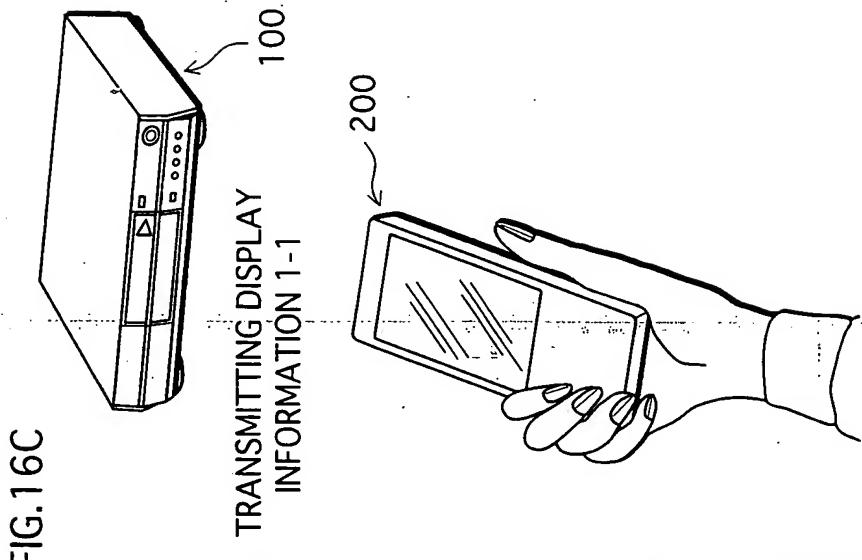


FIG. 16B CONTENTS OF DISPLAY INFORMATION 1-1						
BUTTON 1: ENABLED NAME=" MENU" IMAGE=" STAR" POSITION=" UPPER LEFT" EVENT=" DISPLAY MENU"	TEXT 1: REVERSE COLOR NAME=" NO ANGLE SECTION" POSITION=" UPPER CENTER"	BUTTON 3: DISABLED NAME=" 2" IMAGE=" GRAY-OUT OVAL" POSITION=" MIDDLE RIGHT" EVENT=" NONE"	BUTTON 5: ENABLED NAME=" NEXT" IMAGE=" RIGHT ARROW" POSITION=" MIDDLE LOWER RIGHT" EVENT=" SKIP NEXT"	BUTTON 7: ENABLED NAME=" FAST-FORWARD" IMAGE=" PENTAGONAL FIGURE POINTING RIGHT" POSITION=" LOWER RIGHT" EVENT=" FAST-FORWARD"		
BUTTON 2: DISABLED NAME=" 1" IMAGE=" GRAY-OUT OVAL" POSITION=" MIDDLE LEFT" EVENT=" NONE"		BUTTON 4: DISABLED NAME=" PREVIOUS" IMAGE=" GRAY-OUT LEFT ARROW" POSITION=" MIDDLE LOWER LEFT" EVENT=" NONE"				
					BUTTON 6: DISABLED NAME=" FAST-REWIND" IMAGE=" GRAY-OUT PENTAGONAL FIGURE POINTING LEFT" POSITION=" LOWER LEFT" EVENT=" NONE"	



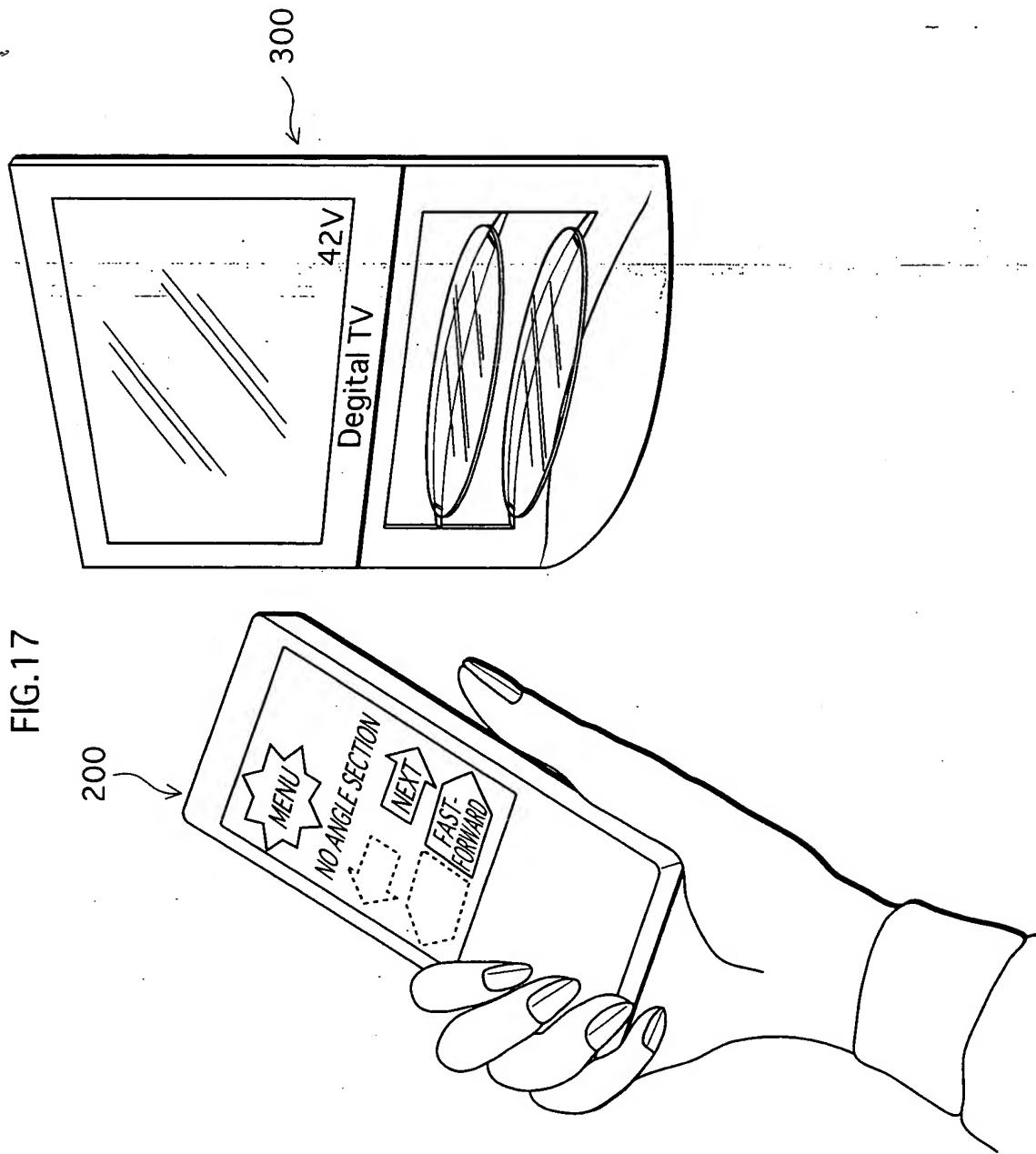


FIG. 17

FIG. 18A

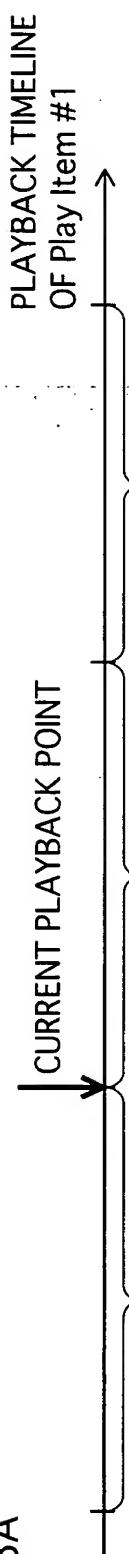
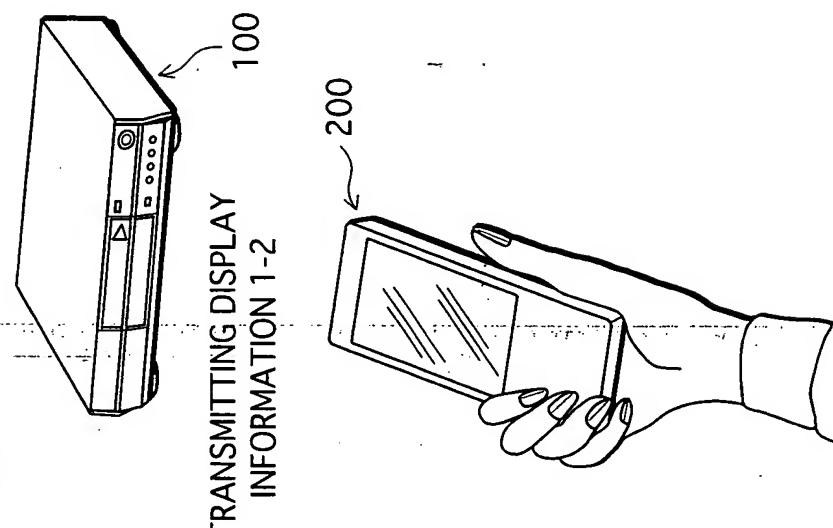
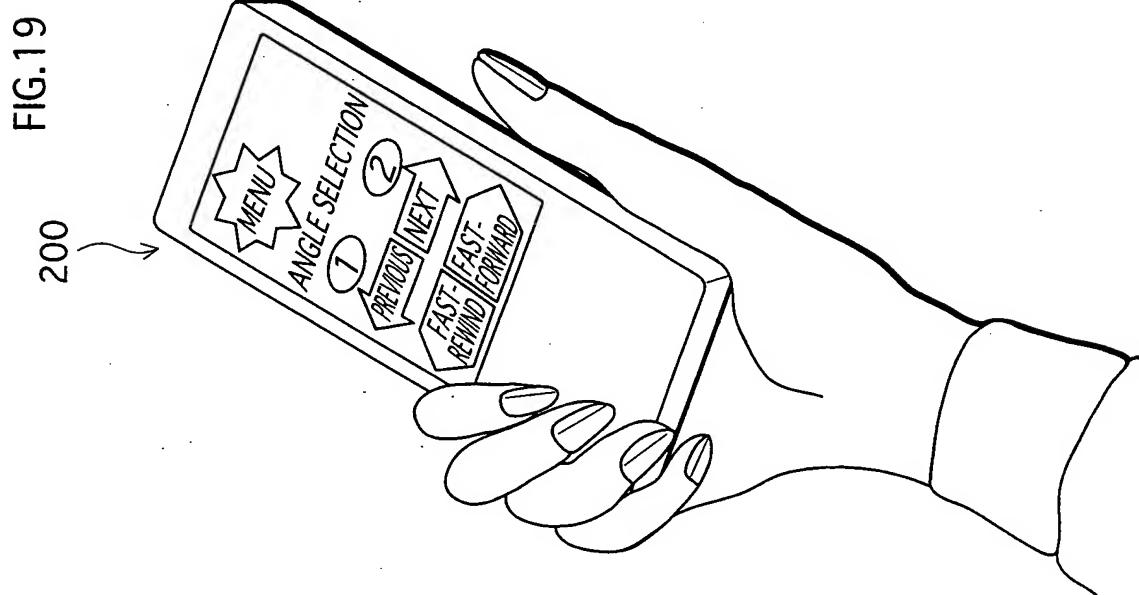
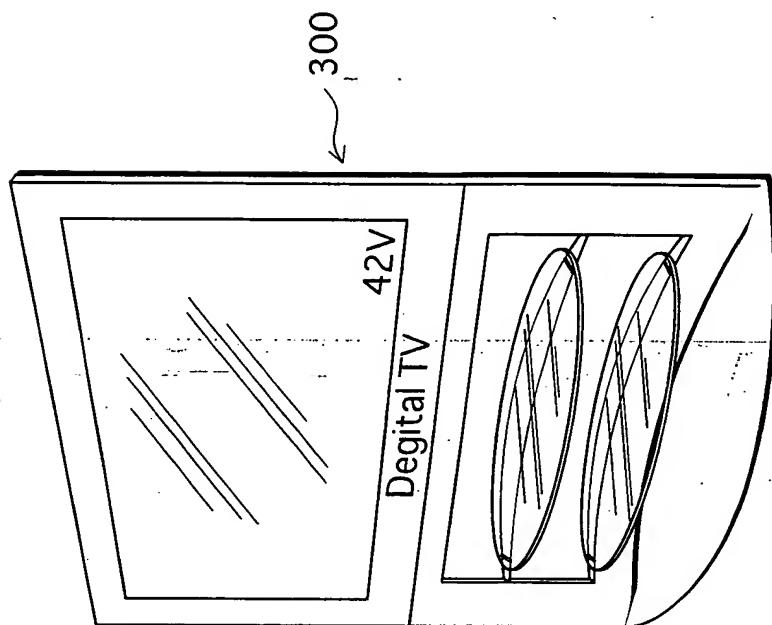


FIG. 18B CONTENTS OF DISPLAY INFORMATION 1-2

BUTTON 1: ENABLED NAME= " MENU" IMAGE= " STAR" POSITION= " UPPER LEFT" EVENT= " DISPLAY MENU"	TEXT 1: NORMAL COLOR NAME= " ANGLE SELECTION" POSITION= " UPPER CENTER"
BUTTON 2: ENABLED NAME= " 1" IMAGE= " OVAL" POSITION= " MIDDLE LEFT" EVENT= " ANGLE 1"	BUTTON 3: ENABLED NAME= " 2" IMAGE= " OVAL" POSITION= " MIDDLE RIGHT" EVENT= " ANGLE 2"
BUTTON 4: ENABLED NAME= " PREVIOUS" IMAGE= " LEFT ARROW" POSITION= " MIDDLE LOWER LEFT" EVENT= " SKIP BACK"	BUTTON 5: ENABLED NAME= " NEXT" IMAGE= " RIGHT ARROW" POSITION= " MIDDLE LOWER RIGHT" EVENT= " SKIP NEXT"
BUTTON 6: ENABLED NAME= " FAST-REWIND" IMAGE= " PENTAGONAL FIGURE POINTING LEFT" POSITION= " LOWER LEFT" EVENT= " FAST-REWIND"	BUTTON 7: ENABLED NAME= " FAST-FORWARD" IMAGE= " PENTAGONAL FIGURE POINTING RIGHT" POSITION= " LOWER RIGHT" EVENT= " FAST-FORWARD"

FIG. 18C





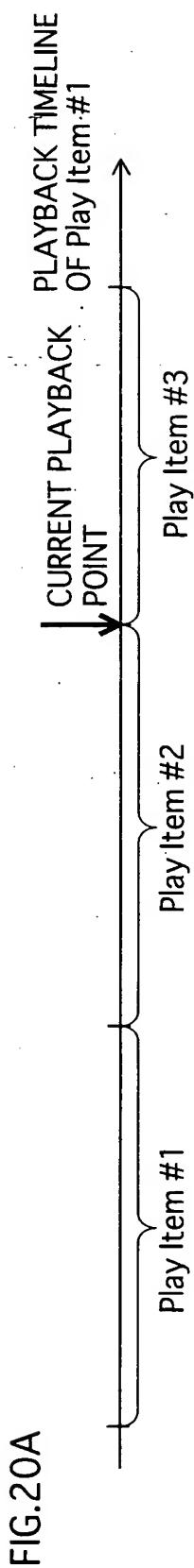
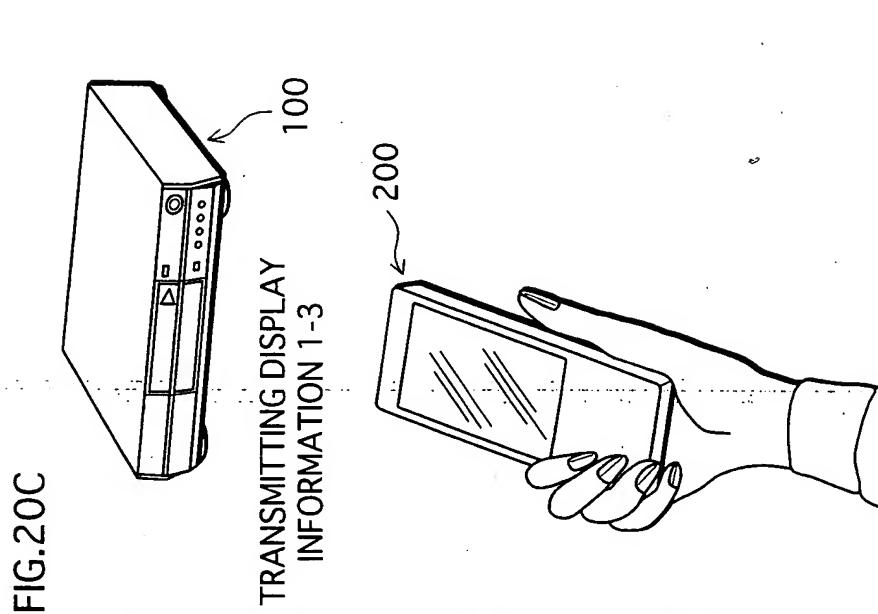


FIG.20B CONTENTS OF DISPLAY INFORMATION 1-3

BUTTON 1: ENABLED NAME= "MENU" IMAGE= "STAR" POSITION= "UPPER LEFT" EVENT= "DISPLAY MENU"	TEXT 1: REVERSE COLOR NAME= " NO ANGLE SECTION" POSITION= " UPPER CENTER"	BUTTON 3: DISABLED NAME= "2" IMAGE= " GRAY-OUT OVAL" POSITION= " MIDDLE RIGHT" EVENT= " NONE"
BUTTON 2: DISABLED NAME= "1" IMAGE= " GRAY-OUT OVAL" POSITION= " MIDDLE LEFT" EVENT= " NONE"	BUTTON 4: ENABLED NAME= " PREVIOUS" IMAGE= " LEFT ARROW" POSITION= " MIDDLE LOWER LEFT" EVENT= " SKIP BACK"	BUTTON 5: DISABLED NAME= " NEXT" IMAGE= " GRAY-OUT RIGHT ARROW" POSITION= " MIDDLE LOWER RIGHT" EVENT= " NONE"
BUTTON 6: ENABLED NAME= " FAST-REWIND" IMAGE= " PENTAGONAL FIGURE POINTING LEFT" POSITION= " LOWER LEFT" EVENT= " FAST-REWIND"	BUTTON 7: DISABLED NAME= " FAST-FORWARD" IMAGE= " GRAY-OUT PENTAGONAL FIGURE POINTING RIGHT" POSITION= " LOWER RIGHT" EVENT= " NONE"	



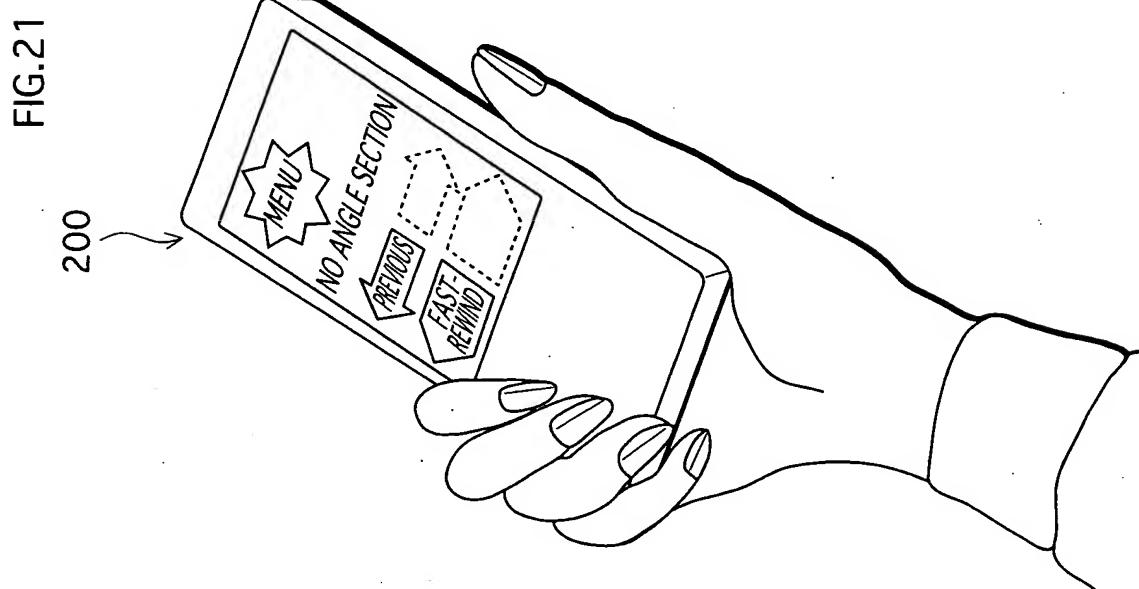
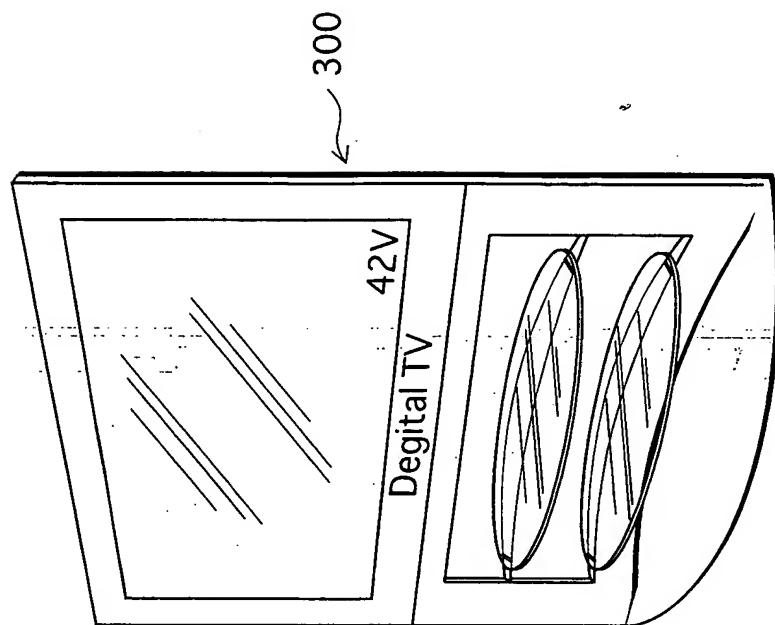


FIG.22

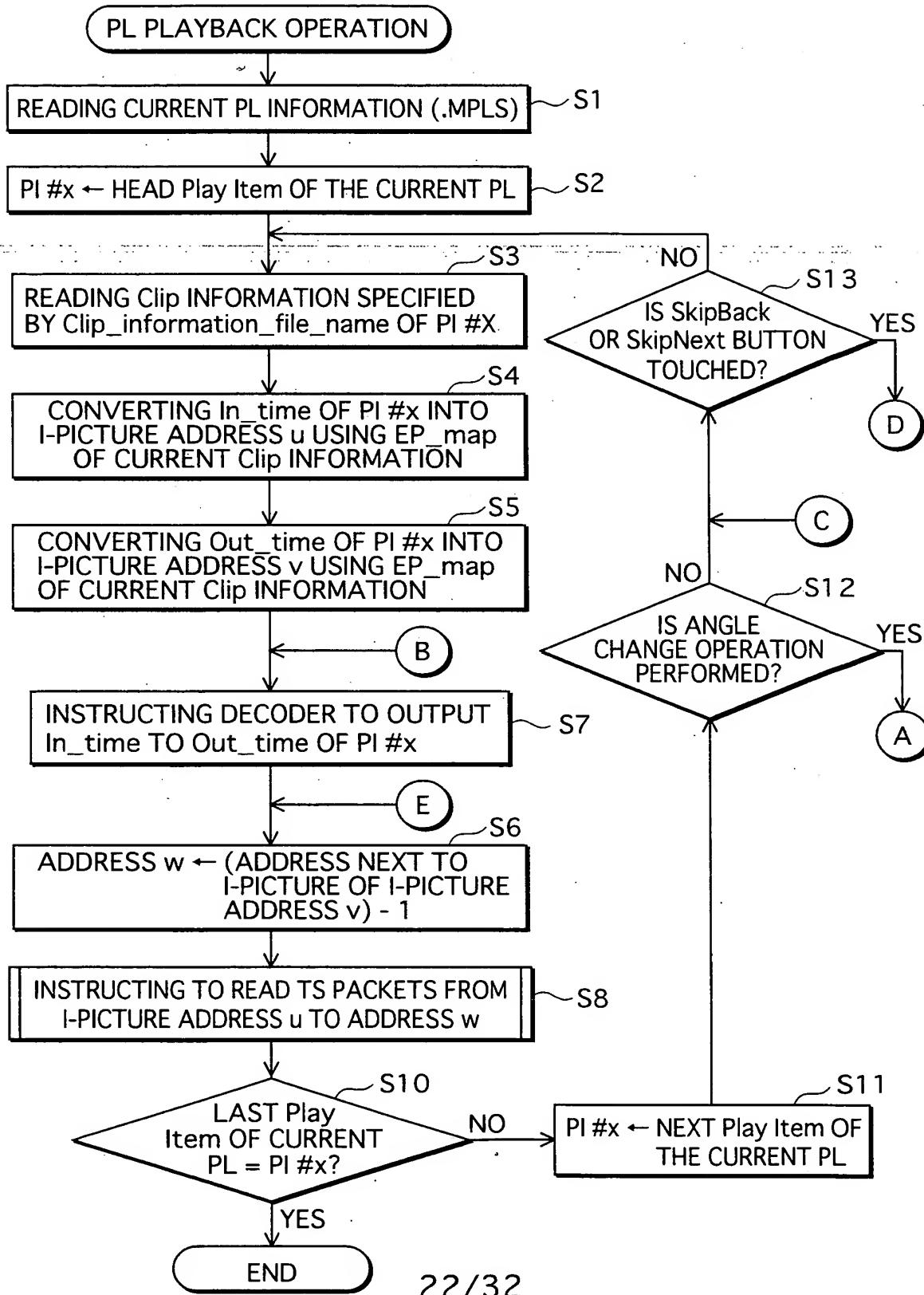


FIG.23

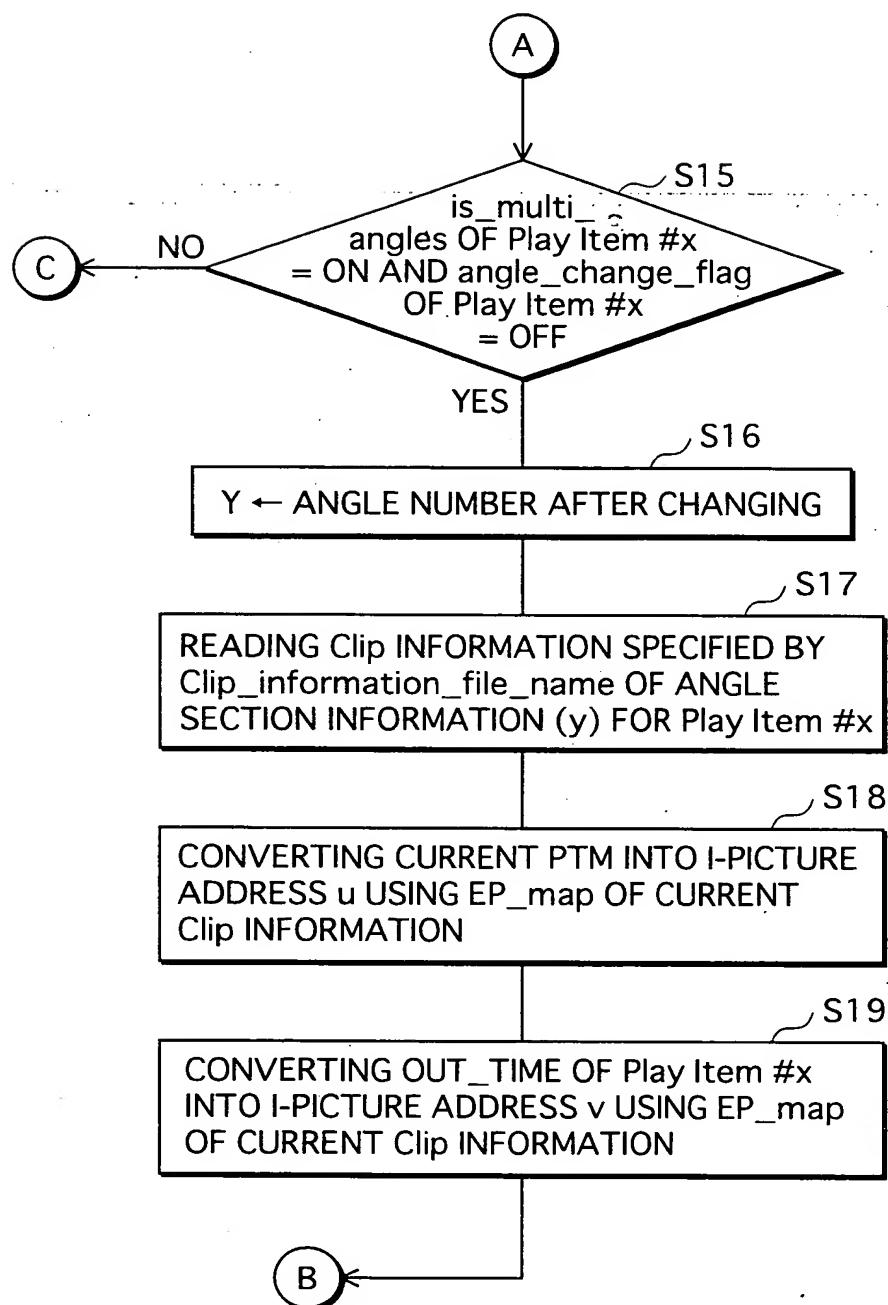


FIG.24

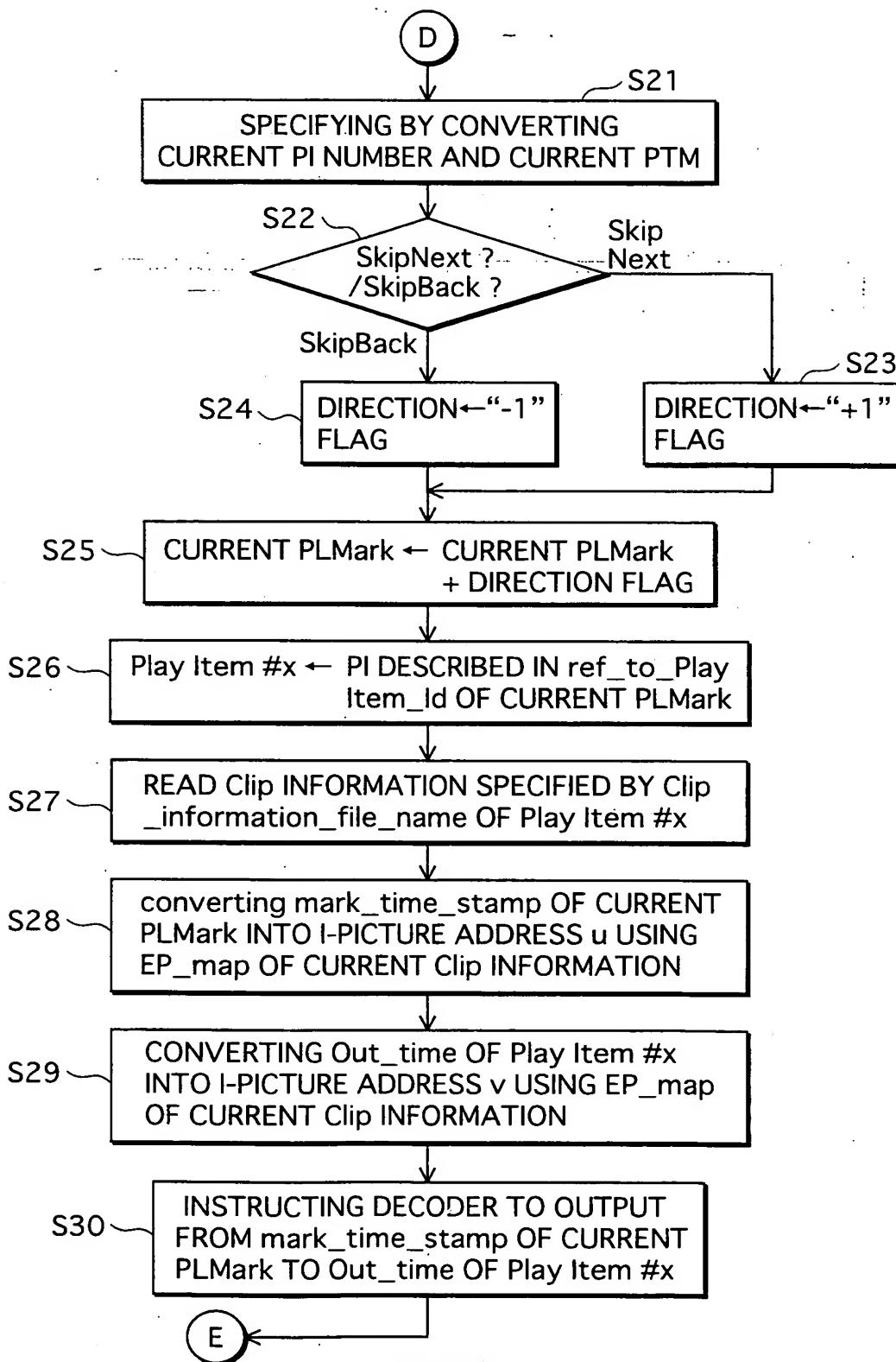


FIG.25

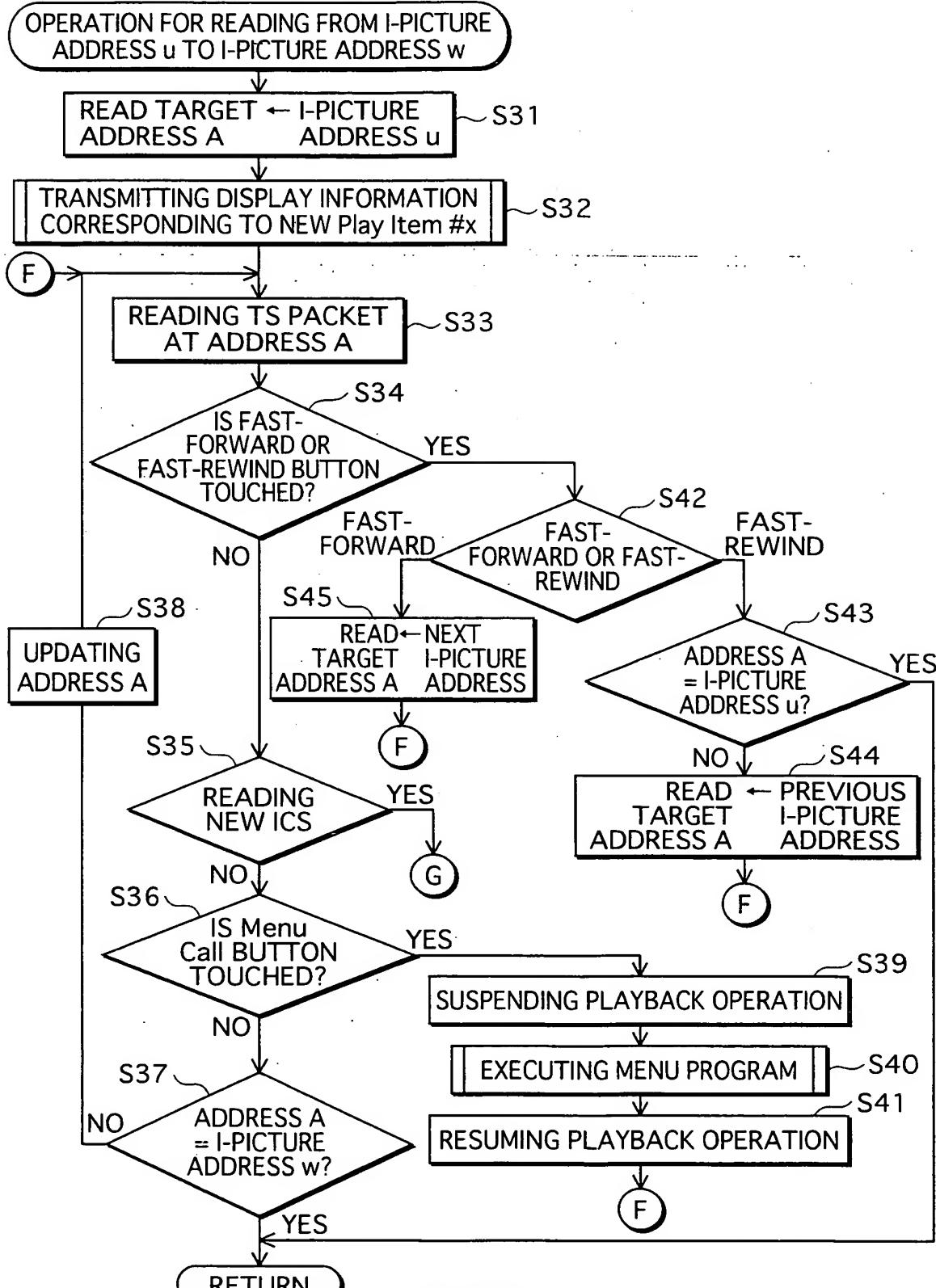


FIG. 26A
OPERATION FOR TRANSMITTING DISPLAY INFORMATION

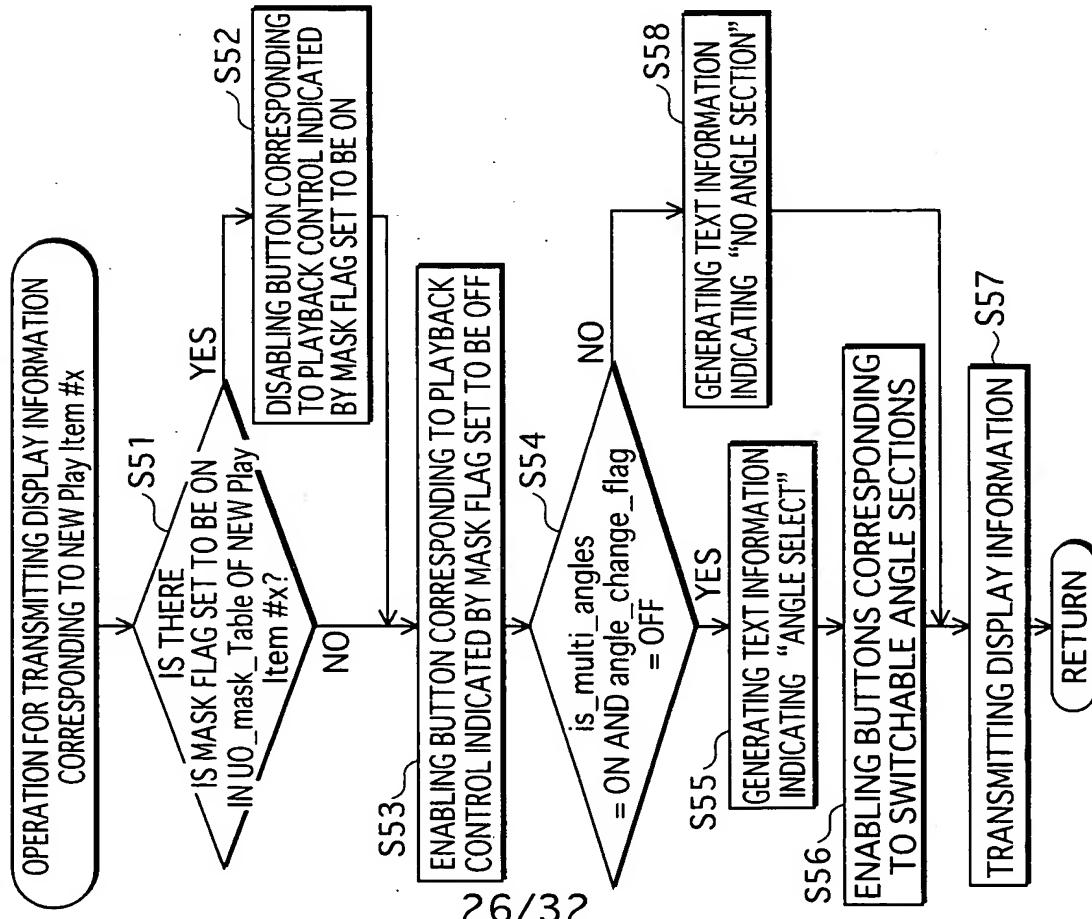


FIG. 26B

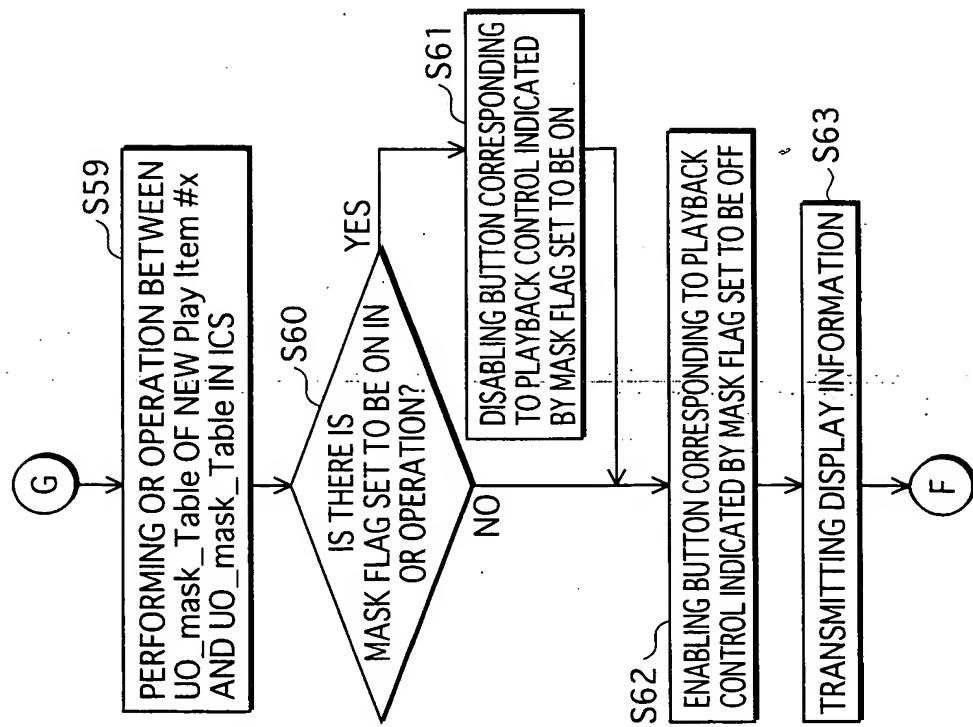


FIG. 27

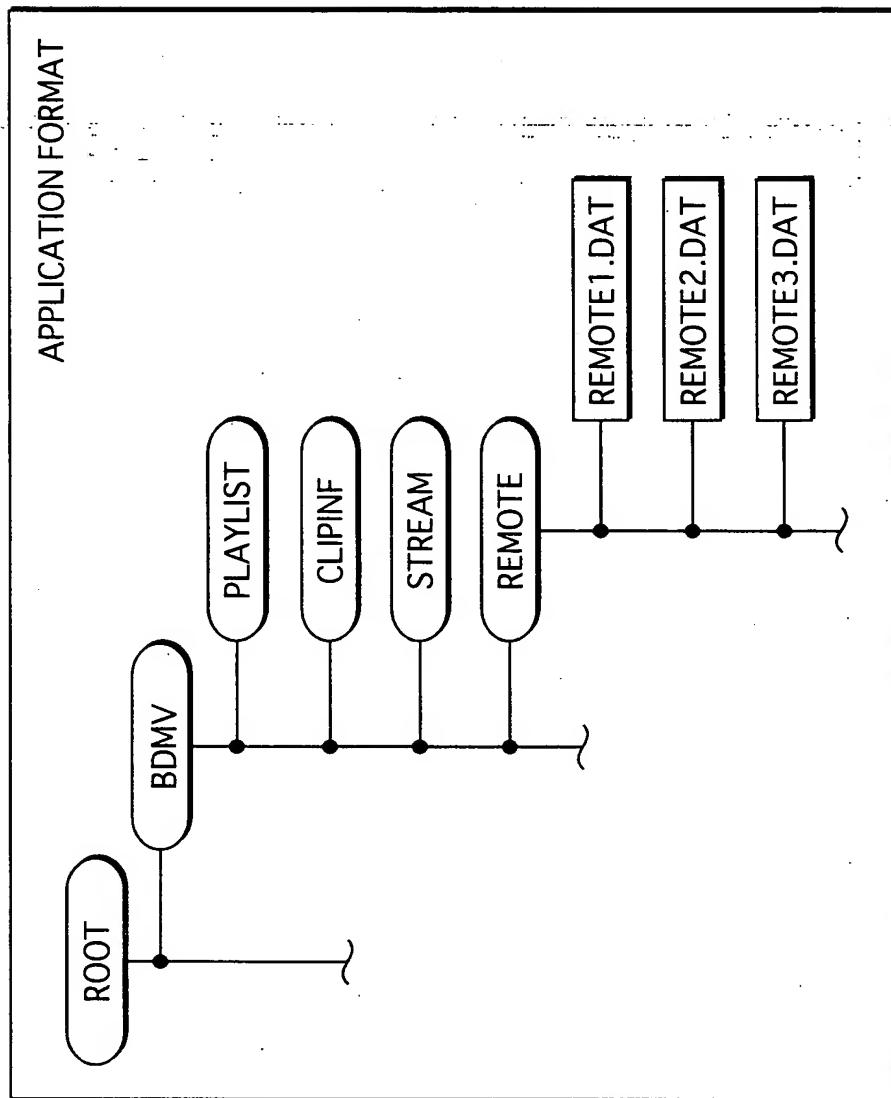


FIG.28

Remote 1.dat

EFFECTIVE SECTION=Play Item # 1

BUTTON 1: ENABLED
NAME=" MENU"
IMAGE=" STAR"
POSITION=" UPPER LEFT"
EVENT=" DISPLAY MENU"

TEXT 1: REVERSE COLOR
NAME=" NO ANGLE SECTION"
POSITION=" UPPER CENTER"

BUTTON 2: DISABLED
NAME=" 1"
IMAGE=" GRAY-OUT OVAL"
POSITION=" MIDDLE LEFT"
EVENT=" NONE"

BUTTON 3: DISABLED
NAME=" 2"
IMAGE=" GRAY-OUT OVAL"
POSITION=" MIDDLE RIGHT"
EVENT=" NONE"

BUTTON 4: DISABLED
NAME=" PREVIOUS"
IMAGE=" GRAY-OUT LEFT ARROW"
POSITION=" MIDDLE LOWER LEFT"
EVENT=" NONE"

BUTTON 5: ENABLED
NAME=" NEXT"
IMAGE=" RIGHT ARROW"
POSITION=" MIDDLE
LOWER RIGHT"
EVENT=" SKIP NEXT"

BUTTON 6: DISABLED
NAME=" FAST-REWIND"
IMAGE=" GRAY-OUT PENTAGONAL
FIGURE POINTING LEFT"
POSITION=" LOWER LEFT"
EVENT=" NONE"

BUTTON 7: ENABLED
NAME=" FAST-FORWARD"
IMAGE=" PENTAGONAL FIGURE
POINTING RIGHT"
POSITION=" LOWER RIGHT"
EVENT=" FAST-FORWARD"

FIG.29

Remote 2.dat

EFFECTIVE SECTION=Play Item # 2

BUTTON 1: ENABLED
NAME=" MENU"
IMAGE=" STAR"
POSITION=" UPPER LEFT"
EVENT=" DISPLAY MENU"

TEXT 1: NORMAL COLOR
NAME=" ANGLE SELECTION"
POSITION=" UPPER CENTER"

BUTTON 2: ENABLED
NAME=" 1"
IMAGE=" OVAL"
POSITION=" MIDDLE LEFT"
EVENT=" ANGLE 1"

BUTTON 3: ENABLED
NAME=" 2"
IMAGE=" OVAL"
POSITION=" MIDDLE RIGHT"
EVENT=" ANGLE 2"

BUTTON 4: ENABLED
NAME=" PREVIOUS"
IMAGE=" LEFT ARROW"
POSITION=" MIDDLE LOWER LEFT"
EVENT=" SKIP BACK"

BUTTON 5: ENABLED
NAME=" NEXT"
IMAGE=" RIGHT ARROW"
POSITION=" MIDDLE
LOWER RIGHT"
EVENT=" SKIP NEXT"

BUTTON 6: ENABLED
NAME=" FAST-REWIND"
IMAGE=" PENTAGONAL
FIGURE POINTING LEFT"
POSITION=" LOWER LEFT"
EVENT=" FAST-REWIND"

BUTTON 7: ENABLED
NAME=" FAST-FORWARD"
IMAGE=" PENTAGONAL
FIGURE POINTING RIGHT"
POSITION=" LOWER RIGHT"
EVENT=" FAST-FORWARD"

FIG.30

Remote 3.dat

EFFECTIVE SECTION=Play Item # 3

BUTTON 1: ENABLED
NAME=" MENU"
IMAGE=" STAR"
POSITION=" UPPER LEFT"
EVENT=" DISPLAY MENU"

TEXT 1: REVERSE COLOR
NAME=" NO ANGLE SECTION"
POSITION=" UPPER CENTER"

BUTTON 2: DISABLED
NAME=" 1"
IMAGE=" GRAY-OUT OVAL"
POSITION=" MIDDLE LEFT"
EVENT=" NONE"

BUTTON 3: DISABLED
NAME=" 2"
IMAGE=" GRAY-OUT OVAL"
POSITION=" MIDDLE RIGHT"
EVENT=" NONE"

BUTTON 4: ENABLED
NAME=" PREVIOUS"
IMAGE=" LEFT ARROW"
POSITION=" MIDDLE LOWER LEFT"
EVENT=" SKIP BACK"

BUTTON 5: DISABLED
NAME=" NEXT"
IMAGE=" GRAY-OUT RIGHT ARROW"
POSITION=" MIDDLE LOWER RIGHT"
EVENT=" NONE"

BUTTON 6: ENABLED
NAME=" FAST-REWIND"
IMAGE=" PENTAGONAL
FIGURE POINTING LEFT"
POSITION=" LOWER LEFT"
EVENT=" FAST-REWIND"

BUTTON 7: DISABLED
NAME=" FAST-FORWARD"
IMAGE=" GRAY-OUT PENTAGONAL
FIGURE POINTING RIGHT"
POSITION=" LOWER RIGHT"
EVENT=" NONE"

FIG.31

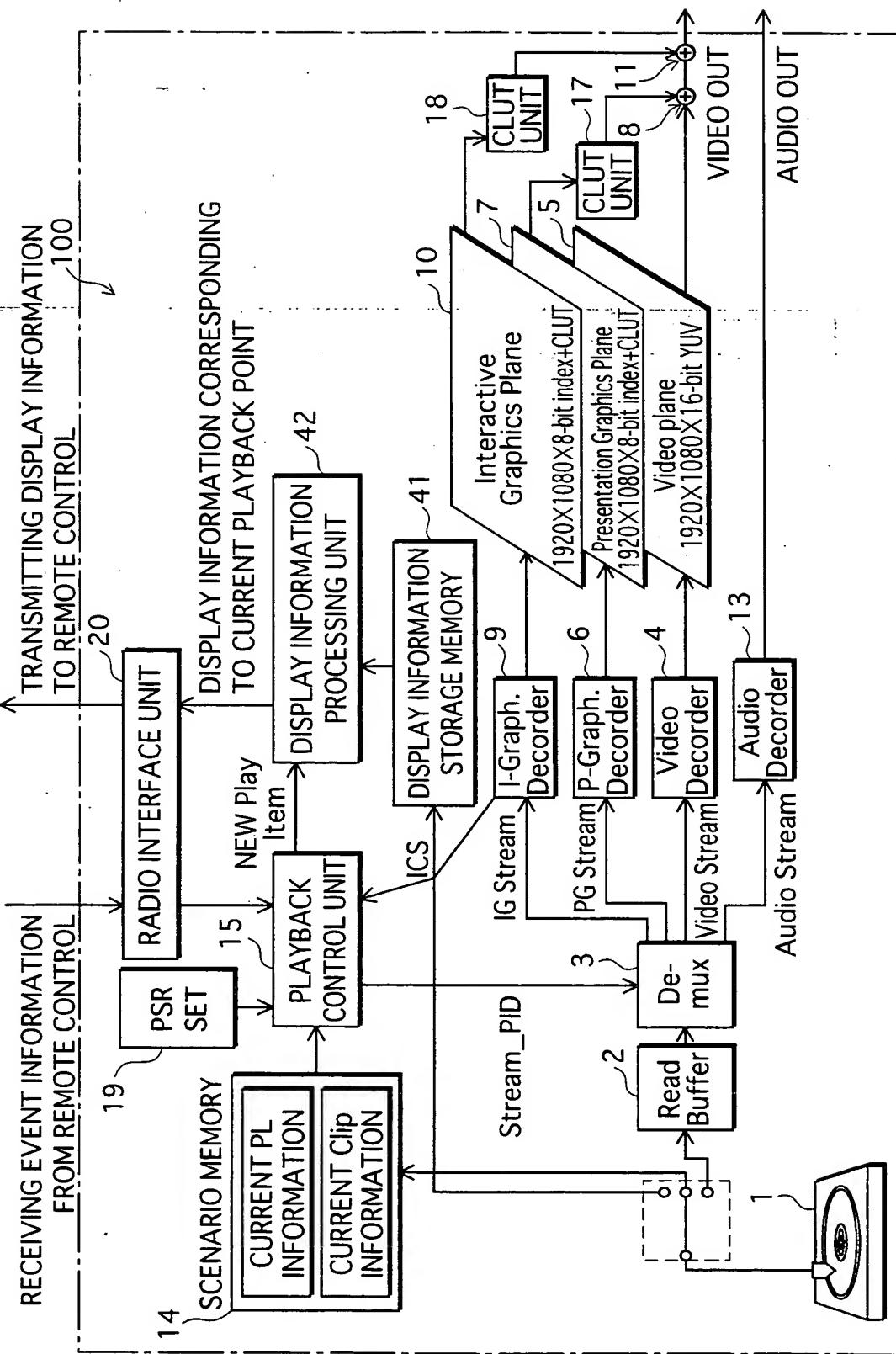


FIG.32

UO mask table

chapter_search_mask
time_search_mask
skip_next_mask
skip_back_mask
play_mask
stop_mask
pause_on_mask
pause_off_mask
still_off_mask
forward_play_mask
backward_play_mask
resume_mask
move_up_selected_button_mask
move_down_selected_button_mask
move_left_selected_button_mask
move_right_selected_button_mask
select_button_mask
acivate_and_activate_mask
select_and_activate_mask
audio_change_mask
PG_textST_change_mask
angle_change_mask
pupup_on_mask
pupup_off_mask
select_menu_language_mask

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